

Perfecto T Range

Turbine oils

Description

The Castrol Perfecto T range of turbine oils is formulated from highly refined mineral base stocks together with rust and oxidation additives to extend their inherent oxidation stability and corrosion protection.

Application

The Perfecto T range is primarily intended for the lubrication of steam turbines because of its resistance to foaming, demulsification performance and its air release properties. It can also be used in lightly loaded industrial gas turbines where anti wear performance is not required and turbo machinery where hydrodynamic lubrication prevails.

Specific Grades within the Perfecto T range meet or exceed the requirements of

- BS 489 1999
- DIN 51515 Part 1(L-TD)
- General Electric GEK
 - 28143A
 - 46506E
- Siemens TLV 9013 04

Advantages

- Extensive performance history
- Low foaming tendency and air release properties
- Good demulsibility and corrosion inhibition performance

Typical Characteristics

Name	Method	Units	Perfecto T 32	Perfecto T 46	Perfecto T 68	Perfecto T 100
Kinematic Viscosity @ 40°C	ISO 3104 / ASTM D445	mm ² /s	32	46	68	100
Kinematic Viscosity @t 100°C	ISO 3104 / ASTM D445	mm ² /s	5.3	6.7	8.6	10.8
Viscosity Index	ISO 2909 / ASTM D2270	-	102	102	102	97
Density @ 15°C	ISO 12185 / ASTM D4052	kg/m ³	874	877	881	882
Pour Point	ISO 3016 / ASTM D97	°C	-12	-12	-12	-12
Flash Point - Closed cup method	ISO 2719 / ASTM D93	°C	216	220	230	230
Acid Number	ISO 6619 / ASTM D664	mgKOH/g	0.1	0.1	0.1	0.1
Air Release at 50°C	ISO 9120 / ASTM 3427	min	3	4	5	8
Demulsification	IP 19	seconds	60	60	90	90
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml	10/0	10/0	20/0	20/0
Foam Sequence II - tendency / stability	ISO 6247 / ASTM D892	ml	0/0	0/0	0/0	10/0
Foam Sequence III - tendency / stability	ISO 6247 / ASTM D892	ml	10/0	10/0	20/0	20/0
Rust test - distilled water (24 hrs)	ISO 7120 / ASTM D665A	-	Pass	Pass	Pass	Pass
Rust test - synthetic sea water (24 hrs)	ISO 7120 / ASTM D665B	-	Pass	Pass	Pass	Pass
Copper Corrosion (3hrs at 100°C)	ISO 2160 / ASTM D130	-	1A	1A	1A	1A
Oxidation Stability - RPVOT	ASTM D2272	min	450	450	450	450
Oxidation Stability - TOST	ISO 4263-1 / ASTM D943	hrs	4000	4000	4000	4000

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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Australia Level 8 (QV1 Building), 250 St. Georges Terrace, Perth WA 6000, Australia. Customer Service Number +61 (0)8 9420 1825

Dubai City Tower 2, 6th Floor PO BOX 1699, Sheikh Zayed Road, Dubai, U.A.E. Customer Service Number +971 4 3079304

Norway Drammensveien 167, Box 153 Skoyen, 0212 Oslo, Norway. Customer Service Number +47 22 51 12 43 501

Singapore Keppel Bay Towers, 1 Harbourfront Avenue 02-01, Singapore 098632, Singapore. Customer Service Number +65 6371 8478

United Kingdom BlueSky Business Space, Westpoint House, Pavilion 2 Prospect Park, Prospect Road, Arnhall Business Park, Westhill. AB32 6FJ, UK.
Customer Service Number +44 (0)1224 270365

USA 501 Westlake Park Boulevard, Houston, Texas 77079, USA. Customer Service Number +1 800 339-7157., Brazil Avenida Itaoca, 2.400, Inhauma, Rio de Janeiro, Zip code 21061-020, customer service +55 11 4133 7835

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